BLAST Basic Local Alignment Search Tool

Your search parameters were adjusted to search for a short input sequence.

Edit and Resubmit Save Search Strategies. Formatting options Download

Blast 2 sequences

SEQ ID NO: 2

Results for: Icl|21551 None(18bp)

Your BLAST job specified more than one input sequence. This box lets you choose which input sequence to show BLAST results for.

Query ID

Icl|21551

Description
None

Molecule type

nucleic acid Query Length

18

Subject ID

gi|1914699|emb|X98077.1|

Description
Hepatitis B virus complete genome, wild type

Molecule type

nucleic acid Subject Length

3215

Program BLASTN 2.2.22+ Citation

Craforario

Stephen F. Altschul, Thomas L. Madden, Alejandro A. Schäffer, Jinghui Zhang, Zheng Zhang, Webb Miller, and David J. Lipman (1997), "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs", Nucleic Acids Res. 25:3389-3402.

Other reports: Search Summary [Taxonomy reports]

Search Parameters

Program	blastn
Word size	7
Expect value	1000
Hitlist size	100
Match/Mismatch scores	1,-3
Gapcosts	5,2
Filter string	F
Genetic Code	1

Karlin-Altschul statistics

Params	Ungapped	Gapped
Lambda	1.37406	1.37406
K	0.710603	0.710603
Н	1.30725	1.30725

Results Statistics

Effective search space 35288

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Graphic Summary

Distribution of 5 Blast Hits on the Query Sequence

[?]

An overview of the database sequences aligned to the query sequence is shown. The score of each alignment is indicated by one of five different colors, which divides the range of scores into five groups. Multiple alignments on the same database sequence are connected by a striped line. Mousing over a hit sequence causes the definition and score to be shown in the window at the top, clicking on a hit sequence takes the user to the associated alignments. New: This graphic is an overview of database sequences aligned to the query sequence. Alignments are color-oded by score, within one of five score ranges. Multiple alignments on the same database sequence are connected by a dashed line. Mousing over an alignment shows the alignment definition and score in the box at the top. Clicking an alignment displays the alignment detail.

	Color key for alignment scores									
<4	0	40-50	50-90	310 - 7161	y=2	00				
uery			,		,					
'n	3	6	9	12	15	1				

Oot Matrix View

Plot of IcI|21551 vs qi|1914699|emb|X98077.1| [?]

This dot matrix view shows regions of similarity based upon the BLAST results. The query sequence is represented on the X-axis and the numbers represent the bases/residues of the query. The subject is represented on the Y-axis and again the numbers represent the bases/residues of the subject. Alignments are shown in the plot as lines us trand and protein matches are slanted from the bottom left to the upper right corner, minus strand matches are slanted from the upper left to the lower right. The number of lines shown in the plot is the same as the number of alignments found by BLAST.

×

Descriptions

Legend for links to other resources: UniGene GEO Gene Structure Map Viewer

Sequences producing significant alignments:

(Click headers to sort columns)

X98077.1 Hepatitis B virus complete genome, wild type

36.2 91.7 100% 5e-07 100%

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Alignments Select All Get selected sequences Distance tree of results Multiple alignment NEW

>emb|X98077.1| Hepatitis B virus complete genome, wild type Length=3215

> Sort alignments for this subject seq E value Score Percent identity Query start position Subject star

Score = 36.2 bits (18), Expect = 5e-07 Identities = 18/18 (100%), Gaps = 0/18 (0%) Strand=Plus/Plus Query 1 GCTGAATCCCGCGGACGA 18 Sbjct 1440 GCTGAATCCCGCGGACGA 1457 Score = 14.4 bits (7), Expect = 1.7 Identities = 7/7 (100%), Gaps = 0/7 (0%) Strand=Plus/Minus Query 7 TCCCGCG 13 Sbjct 1414 TCCCGCG 1408 Score = 14.4 bits (7), Expect = 1.7 Identities = 7/7 (100%), Gaps = 0/7 (0%) Strand=Plus/Plus Query 10 CGCGGAC 16 Sbjct 1539 CGCGGAC 1545 Score = 14.4 bits (7), Expect = 1.7Identities = 7/7 (100%), Gaps = 0/7 (0%) Strand=Plus/Minus Query 4 GAATCCC 10 Sbjct 2919 GAATCCC 2913 Score = 12.4 bits (6), Expect = 6.6 Identities = 6/6 (100%), Gaps = 0/6 (0%) Strand=Plus/Minus Query 1 GCTGAA 6

Select All Get selected sequences Distance tree of results Multiple alignment. NEW

Sbjct 1678 GCTGAA 1673